INTERNATIONAL SEARCH REPORT

(PCT Articl 18 and Rul s 43 and 44)

Applicant's or agent's file reference	FOR FURTHER see Notification	of Transmittal of International Search Report
PF-0577 PCT	ACTION	(220) as well as, where applicable, item 5 below.
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/US 99/19616	26/08/1999	27/08/1998
Applicant		
(*)	A1	
INCYTE PHARMACEUTICALS, I	NC. et al.	
This International Search Report has bee	en prepared by this International Searching Aut	thority and is transmitted to the applicant
according to Article 18. A copy is being tr	ansmitted to the International Bureau.	
This leternational Secret December 1		e-
This International Search Report consists It is also accompanied by	s of a total ofbsheets. y a copy of each prior art document cited in this	s report
	,	
Basis of the report	÷ .	
a. With regard to the language, the	international search was carried out on the ba less otherwise indicated under this item.	sis of the international application in the
	*	
the international search v Authority (Rule 23.1(b)).	was carried out on the basis of a translation of	the international application furnished to this
, , , , , , , , , , , , , , , , , , , ,	nd/or amino acid sequence disclosed in the i	nternational application, the international search
was carried out on the basis of th		
₩	onal application in written form. ernational application in computer readable for	
=		
	o this Authority in computer readble form.	
the statement that the su	bsequently furnished written sequence listing of as filed has been furnished.	does not go beyond the disclosure in the
		is identical to the written sequence listing has been
fumished		is recinion to the triment sequence listing has been
2 (V) Contain states are server		
	ind unsearchable (See Box I).	* *
3 X Unity of invention is lac	cking (see Box II).	
4. With regard to the title,		
רערו .	ubmitted by the applicant.	
	shed by this Authority to read as follows:	
	•	*
	•	·
5. With regard to the abstract,		
	ubmitted by the applicant.	
the text has been establis within one month from the	shed, according to Rule 38.2(b), by this Author e date of mailing of this international search re	ity as it appears in Box III. The applicant may, port, submit comments to this Authority.
6. The figure of the drawings to be pub		
as suggested by the appl		None of the figures.
because the applicant fai	· ·	
=	r characterizes the invention.	

International application No.

PCT/US 99/19616

B x I Obs rvati ns where c rtain claims wer f und uns archable (C ntinuati n f it m 1 of first she t)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. X Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely: Remark: Although claim 19 is directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the composition.
2. X Claims Nos: 17, 18, 20 because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically: see FURTHER INFORMATION sheet PCT/ISA/210
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
B x II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
see additional sheet
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. X No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
see additional sheet, subject 1.
Remark on Protest The additional search fees were accompanied by the applicant's protest.
No protest accompanied the payment of additional search fees.

Further defect(s) under Article 17(2)(a):

Continuation of Box 3.

Claims Nos.: 17,18,20

Claims 17, 18 and in part 20 refer to an antagonist and agonist of the polypeptides of claim 1 without giving a true technical characterisation. Moreover, no such compounds are defined in the application. In consequence, the scope of said claims is vague, and their subject-matter is not sufficiently disclosed and supported (Articles 5 and 6 PCT). No search can be carried out for these purely speculative claims whose wording is, in fact, a mere recitation of the results to be achieved.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

1. Claims: 1-20 (all partly)

Polypeptides comprising SEQ ID NO: 1, fragments and variants thereof, encoding polynucleotides (such as SEQ ID NO: 9), cells containing them, methods for production of said polypeptides, corresponding pharmaceutical composition and antibody.

- 1.1. Claims: 1-20 (all partly)
 As subject 1 but limited to SEQ ID NO:5 and 13
- 2. Claims: 1-20 (all partly)

As subject 1 but limited to SEQ ID NO:2 and 10

3. Claims: 1-20 (all partly)

As subject 1 but limited to SEQ ID NO: 3 and 11

4. Claims: 1-20 (all partly)

As subject 1 but limited to SEQ ID NO: 4 and 12

5. Claims: 1-20 (all partly)

As subject 1 but limited to SEQ ID NO: 6 and 14

6. Claims: 1-20 (all partly)

As subject 1 but limited to SEQ ID NO: 7 and 15

7. Claims: 1-20 (all partly)

As subject 1 but limited to SEQ ID NO: 8 and 16

Intern. al Application No

				rc1/03 3	3/13010
IPC 7	OFFICATION OF SUBJECT MATTER C12N15/12 C07K14/47 C12	201/68	A61K38/1	7 C07	K16/18
According (to international Patent Classification (IPC) or to both national	l classification ar	nd IPC		
B. FIELDS	SEARCHED		,		
Minimum d IPC 7	ocumentation searched (classification system followed by cl C12N C07K C12Q	lassification sym	bols)		
Documente	tion searched other than minimum documentation to the ext	ent that such do	cuments are included	in the fields se	earched
Electronic o	ata base consulted during the international search (name of	f data base and,	where practical, see	arch terms used	
	•	:		Ē	
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT				
Category °	Citation of document, with indication, where appropriate, of	of the relevant p	assages	-	Relevant to claim No.
X	KAIN R ET AL: "Molecular cl expression of a novel human network glycoprotein, TGN51,	trans-Go	lai		1-14,16
: %	multiple tyrosine-containing JOURNAL OF BIOLOGICAL CHEMIS vol. 273, no. 2,	TRY,			+
	9 January 1998 (1998-01-09), 981-988, XP002125426 MD US	,		¥.	
	compare the sequences in fig ID NO 1 and 9.	ure l wii	th SEQ		
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					e e
		*			
X Furth	er documents are listed in the continuation of box C.		Patent family mem	bers are listed in	annex.
° Special cat	egories of cited documents :	CT 1-4-	a de auté auté a la titut	4 -44 - 41	
conside	nt defining the general state of the art which is not ered to be of particular relevance	or cit	r document published priority date and not ed to understand the rention	in conflict with t	ne application but
L docume	nt which may throw doubts on priority claim(a) or	"X" :doc	ument of particular re	tovel or cannot b	aimed invention be considered to ument is taken alone
CITADON	s cited to establish the publication date of another or other special reason (as specified) nt referring to an oral disclosure, use, exhibition or	"Y" doc ca do	ument of particular re nnot be considered to cument is combined	elevance; the cia o involve an invo with one or mor	timed invention entive step when the e other such docu-
"P" docume	nt published prior to the international filing date but an the priority date claimed	in:	ents, such combination the art. ument member of the		
Date of the a	ctual completion of the international search		e of mailing of the int	temational sear	ch report
13	B December 1999		0	5 04 200)
Name and m	ailing address of the ISA European Patent Office, P.B. 5818 Patentiaan 2 NL - 2280 HV Rijswijk	Auti	honzed officer		
	Tel. (+31-70) 340-2040, Tx. 31 651 epo ni, Fax: (+31-70) 340-3016		CUPIDO, M		



Interr nal Application No PCT/US 99/19616

		PC1/03 9	7 13010	
C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT Category Citation of document, with indication, where appropriate, of the	e relevant passages		Relevant to clair	n No.
Category Classon of accoment, with moleculer, which is a specific appropriate, of the				
PONNAMBALAM S ET AL.: "Prima of rat TGN38: primary structure expression and functional impourment of CELL SCIENCE, vol. 109, no. 3, 1996, pages XP000857634 the whole document, compare to	re, lications" 675-685,		1-14	,16
in figure 1 with SEQ ID NO 1	·			
Database EMBLhum1 SEQ ID AF044924: Homo sapiens protein (H00K2) mRNA, complete 6 April 1998. XP002125427 Compare with SEQ ID NO 5 and	e cds.	X.	1-11	
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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 99/19616

Box I Observati ns where certain claims w	vere found unsearchable (Continuation of item 1 of first sheet)
This International Search Report has not been establi	shed in respect of certain claims under Article 17(2)(a) for the following reasons:
* * * * * * * * * * * * * * * * * * *	
1. X Claims Nos.: because they relate to subject matter not rec	quired to be searched by this Authority, namely:
	is directed to a method of treatment of the
human/animal body,	the search has been carried out and based
on the alleged eff	ects of the composition.
2. X Claims Nos. 17, 18, 20 because they relate to parts of the international S an extent that no meaningful international S	nal Application that do not comply with the prescribed requirements to such earch can be carried out, specifically:
see FURTHER INFORMATION sh	neet PCT/ISA/210
- <u></u> -	
3. Claims Nos.:	not drafted in accordance with the second and third sentences of Rule 6.4(a).
pecause they are dependent claims and are	not di aited in appoidance with the second and third sentences of hole 0.4(a).
Box II Observations where unity of invention	on is lacking (Continuation of item 2 of first sheet)
This International Searching Authority found multiple	inventions in this international application, as follows:
This international Seasoning Additionly found multiple	
*	
see additional sheet	
	*
1. As all required additional search fees were	timely paid by the applicant, this International Search Report covers all
searchable claims.	
2. As all searchable claims could be searched	without effort justifying an additional fee, this Authority did not invite payment
of any additional fee.	
3. As only some of the required additional sea covers only those claims for which fees were	rch fees were timely paid by the applicant, this International Search Report e paid, specifically claims Nos.:
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. [▼]	and his the applicant Company and the later stier of Company or
4. X No required additional search fees were time restricted to the invention first mentioned in	nely paid by the applicant. Consequently, this International Search Report is the claims; it is covered by claims Nos.:
see additional sheet, sub	ject 1.
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	j.
Remark on Protest	The additional search fees were accompanied by the applicant's protest.
	No protest accompanied the payment of additional search fees.
•	To protest accompanies the payment of additions assist toos.

Further defect(s) under Article 17(2)(a):

Continuation of Box 3.

Claims Nos.: 17,18,20

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6. Claims: 1-20 (all partly)

As subject 1 but limited to SEQ ID NO: 7 and 15

7. Claims: 1-20 (all partly)

As subject 1 but limited to SEQ ID NO: 8 and 16

ATENT COOPERATION TRI TY

	BUREAU

PCT

NOTIFICATION OF ELECTION

(PCT Rule 61.2)

To:

Applicant's or agent's file reference

Assistant Commissioner for Patents United States Patent and Trademark Office Box PCT Washington, D.C.20231 ETATS-UNIS D'AMERIQUE

Date of mailing (day/month/year)
22 May 2000 (22.05.00)

in its capacity as elected Office

International application No.	-
PCT/US99/19616	
International filing date (day/month/year)	
26 August 1999 (26.08.99)	1-

Priority date (day/month/year)

27 August 1998 (27.08.98)

Applicant

TANG, Y., Tom et al

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The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

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